

REMARKS

Claims 1-26 are pending. Claims 1-7 and 12 are amended to more particularly point out and distinctly claim Applicant's invention.

The Examiner rejected Claims 1-12 under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent 5,841,396 ("Krasner"). With respect to Claims 1, 6 and 12 the Examiner states:

Regarding claim 1, Krasner teaches in figs. 1 and 6 a mobile communications device (20) comprising: an oscillator (39); a communications unit configured to receive communications data from a source; wherein the communications data includes time reference information (i.e., modem 24 receives from source 16 data link which includes time information, figs. 1A-1C); and a global position system (GPS) unit coupled to the communications unit, wherein the GPS unit is configured to calibrate the oscillator using the time reference information to use the oscillator to acquire GPS satellite signals (col. 3, lines 9-14, col. 12, line 46 to col. 13, line 16).

* * *

Regarding claim 6, Krasner teaches mobile global positioning system (GPS) device (figs. 6a-6c), comprising: a first antenna (613) for receiving GPS signals (col. 3, lines 2-3, col. 12, line 66 to col. 13, line 1); a downconverter coupled to the first antenna, wherein the first antenna provides the GPS signals to the downconverter, wherein the downconverter includes an input for receiving a GPS clock signal to convert the GPS signals from a first frequency to a second frequency (col. 3, lines 2-3, col. 13, lines 13-14); an oscillator coupled to the downconverter, wherein the oscillator outputs the GPS clock signal (col. 3, lines 3-5, col. 13, lines 10-10, col. 14, lines 17-24); a second antenna (601) for receiving a precision carrier frequency signal from a source (col. 3, lines 5-8, col. 12, lines 42-45); and an automatic frequency control (AFC) circuit coupled to the second antenna to receive the precision carrier frequency signal and configured to generate a reference signal for generating the GPS clock signal (col. 3, lines 9-14, col. 12, line 46 to col. 13, line 16).

* * *

Regarding claim 12, Krasner teaches mobile

communications device (figs. 1 and 6), comprising: a GPS antenna for receiving GPS signals (col. 3, lines 2-3, col. 12, line 66 to col. 13, line 1); a downconverter coupled to the GPS antenna, wherein the GPS antenna provides the GPS signals to the downconverter; an oscillator coupled to the downconverter, wherein the oscillator provides an oscillator signal (col. 3, lines 2-3, col. 13, lines 13-60); and a communications unit, including, a communication antenna for receiving a precision carrier frequency signal from a source (col. 3, lines 1-16); and an automatic frequency control (AFC) circuit coupled to the communication antenna, wherein the AFC circuit provides a reference signal to calibrate the oscillator signal, wherein the oscillator signal is used to acquire the GPS signals (col. 12, line 56 to col. 13, line 14).

Applicant respectfully traverses the Examiner's rejection of Claims 1-12. As amended, Claims 1, 6 and 12 each recite a reference signal for downconversion that is phase-locked to a precision signal derived from a source:

1. (Currently amended) A mobile communications device comprising:

a communications unit configured to receive communications data from a source, wherein the communications data includes a precision signal; and

a global positioning system (GPS) unit coupled to the communications unit, wherein the GPS unit includes a phase-locked loop providing a reference signal phased-locked to the precision signal, the reference signal being provided to downconvert a GPS satellite signal.

6. (Currently amended) A mobile global positioning system (GPS) device, comprising:

a first antenna for receiving GPS signals;

a downconverter coupled to the first antenna, wherein the first antenna provides the GPS signals to the downconverter, wherein the downconverter includes an input for receiving a reference clock signal to convert the GPS signals from a first frequency to a second frequency;

a second antenna for receiving a precision carrier frequency signal from a source;

an automatic frequency control (AFC) circuit coupled to the second antenna to receive the precision carrier frequency signal and configured to generate a precision reference signal related in frequency with the precision carrier frequency signal and

a phase-locked loop providing the reference clock signal phase-locked to the precision reference signal.

12. (Currently amended) A mobile communications device, comprising:

a GPS antenna for receiving GPS signals;

a downconverter coupled to the GPS antenna, wherein the GPS antenna provides the GPS signals to the downconverter;

a communications unit, including, a communication antenna for receiving a precision carrier frequency signal from a source; and an automatic frequency control (AFC) circuit coupled to the communication antenna, wherein the AFC circuit provides a reference signal based on the precision carrier frequency signal; and

an oscillator coupled to the downconverter, wherein the oscillator provides an oscillator signal phase-locked to the reference signal, the oscillator signal being provided to the downconverter to mix with the GPS signals.

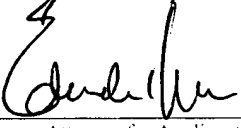
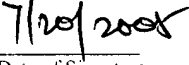
(emphasis added)

As discussed in Applicant's Specification, at pages 9-10, the reference signal is a high quality calibrated oscillator signal for downconverting the GPS signals. In contrast, neither such a reference signal, nor its attendant benefits, is disclosed or suggested by Krasner. For example, as shown in Krasner's Fig. 6A, Krasner's signal 612, generated by frequency synthesizer 609, is not disclosed to have any phase relationship with controlled signal LO. Thus, Applicant submits that Claims 1, 6 and 12 and their respective dependent Claims 2-5 and 7-11 are each allowable over Krasner. Reconsideration and allowance of Claims 1-12 are therefore requested.

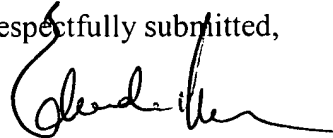
The Examiner rejected Claims 13-26 under the judicially created doctrine of double-

patenting over Claims 1-14 of U.S. Patent 6,650,879. Applicant submits herewith a terminal disclaimer to overcome the Examiner's rejection.

For the above reasons, Applicant submits that all pending claims (i.e., Claims 1-26) are allowable. If the Examiner has any questions regarding the above, the Examiner is respectfully requested to telephone the undersigned Attorney for Applicant at 408-392-9250.

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on July 20, 2005.	
	
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Respectfully submitted,



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